

SKUNDIN, G.I.; DOBROKHLEBOV, A.P.

Study of the forces transmitted by the components of the transmission system of a wheel-type tractor. Trakt. i sel'khoz mash. 32 no.5:8-13 My '62. (MIRA 15:5)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktorny institut.

(Tractors—Transmission devices) (Tractors—Testing)

SKUNDIN, G.I.; DOBROKHLEBOV, A.P.; MOROZOV, K.G.

Field investigation of stresses in the transmission of the DT-75 tractor.
Trakt. i sel'khoz mash. 33 no.2:11-15 F '63. (MIRA 16:3)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktorny
institut.

(Tractors--Transmission devices)

SKUNDIN, G.I., doktor tekhn. nauk; DOBROKHLEBOV, A.P., inzh.

Effect of increasing power saturation of the T-40A tractor
on the durability and reliability of transmission. Trakt.
i sel'khoz mash. no.12:9-12 D '65. (MIRA 18:12)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy
traktorny institut.

L 10041-67 EWT(1) RO
ACC NR: AT6005048 (A) SOURCE CODE: UR/0350/65/000/011/0034/0035

AUTHOR: Dobroldilob, I. (Candidate of Agricultural Sciences) /6

ORG: Scientific Research Institute of Agriculture of the Central Rayons of the Non-Chernozem Zone (Nauchno-issledovatel'skiy institut sel'skogo khozyaystva tsentral'nykh rayonov nechernozemnoy polosy)

TITLE: Herbicides for lupine crops

SOURCE: Zernobobovyye kul'tury, no. 11, 1965, 34-35

TOPIC TAGS: agriculture crop, animal husbandry, weed killer, soil type

ABSTRACT: Weeds are most dangerous for lupine crops used as feed during the early developmental period. To prevent weed growth, treated lupine seeds should be sown in well prepared soil followed by good care. To determine the effects of various herbicides on lupine crops, in 1960 the Scientific Research Institute of Agriculture of the Central Rayons of the Non-Chernozem Zone undertook the investigation of the following herbicides: simazin, atrazin, propazin, DNOC, pentachlorophenol, dinoseb, 2M-4Kam (sodium salt), vegodiks, alipur, linuron, atraton, prometrin, and amiben. The basic difficulty in selecting herbicides is that in many cases lupine is far more sensitive to a given herbicide than the weeds. Taking this factor into consideration, herbicides were applied only to the soil surface on the 3rd or 4th day following

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ACC NR: AP6005048

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lupino sowing. On the basis of experimental data for 1960 to 1964, simazine (0.5 kg/hectare dose) is considered most effective for lupine crops. DNOC (2 kg/hectare dose) kills about 70% of the weeds. During the drought of 1964 foreign produced chemical preparations were found effective, mainly, linuron (0.75 kg/hectare dose) and atraton, prometrin and amiben (1 kg/hectare doses). Orig. art. has: 3 tables.

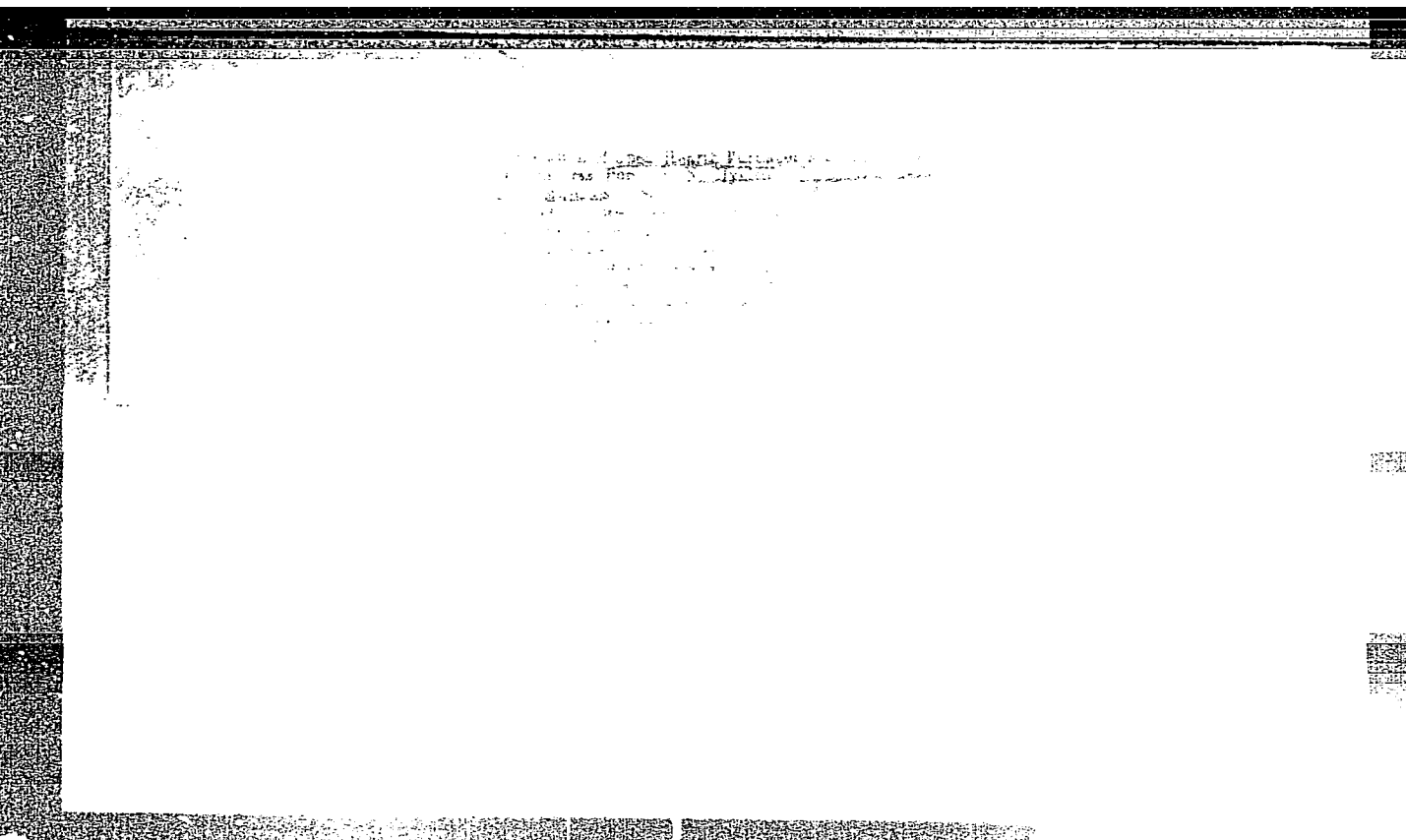
SUB CODE: 02/ SUBM DATE: none

DOBROKHOTOV, A. A.

Chemicals - Manufacture and Industry

Utilization of waste water heat from barometric condensers of evaporating plants of caustic soda, Prom. energ., No. 1., 1952.

Monthly List of Russian Accessions, Library of Congress, March 1952. UNCLASSIFIED.



DOBROKHOTOV, A.A., inzhener; LYKOYANOV, B.I., inzhener; KSENOFONTOV, V.F.
~~inzhener~~

Improve the design of slag chamber partition walls in open-hearth
furnaces. Metallurg no.11:32-34 N '56. (MLRA 10:1)

1. Chelyabinskiy metallurgicheskiy zavod.
(Open-hearth furnaces)

DOBROKHOTOV, Aleksandr Alekseyevich

[Deformations of beams in bending] Deformatsii balok
pri izgibe; teoriia i primery (uchebnoe posobie). Moskva,
Mosk. gornyi in-t, 1961. 26 p. (MIRA 16:10)
(Beams and girders)

DOBROKHOTOV, A. A.

USER/ Electricity - High-tension lines

Card 1/1 Pub. 133 - 15/21

Authors : Dobrokhotoy, A. A.

Title : A method for locating short-circuits on a high-tension line

Periodical : Vest. svyazi 3, page 25, Mar 1955

Abstract : A method of locating shorts in a high-tension line by passing through it a 15-20 ampere current at 2-5 volts, is briefly discussed.

Institution :

Submitted :

DOBROKHOTOV, A.A., tekhnik

Increasing the efficiency of the KV-15/25 transmitter. Vest.
svyazi 15 no.10:24 '0.155 (MLRA 9:2)
(Radio--Transmitters and transmission)

DOBROKHOTOV, A.A.

DOBROKHOTOV, A.A., tekhnik.

~~SECRET~~
Controlling thyatron rectifiers. Vest. svyazi 16 no.10:12-13 0 '56.
(MIRA 10:10)

(Electric current rectifiers)

TULUYEVSKIY, Yu.N.; DOBROKHOTOV, A.A.; AKHAMANAYEV, S.I.; CHISTOVA, E.P.

Combustion control in open-hearth furnaces by the oxygen content.
Izv.vys. ucheb. zav.; chern. met. no.3:184-191 '61. (MIRA 14:3)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii.
(Open-hearth furnaces--Combustion)
(Oxygen--Industrial applications)

BRYUNETKIN, M.G.; DOBROKHOTOV, A.A.

Increasing the durability of open-hearth furnace crowns.
Metallurg 6 no.11:13-17 N '61. (MIRA 14:11)

1. Chelyabinskiy metallurgicheskiy zavod.
(Open-hearth furnaces--Design and construction)

~~DOBROKHOTOV~~, A.A., inzh.; PANCHENKO, A.G., inzh.; SAVEL'YEV, D.N., inzh.;
KOPELKO, Ye.A., inzh.; BRYUNETKIN, M.G., inzh.; KRAVTSOV, N.F., inzh.;
TIMOFEYEVA, R.G., inzh.

Improving the performance of open-hearth furnaces. Stal' 23 no.4:
304-308 Ap '63. (MIRA 16:4)
(Open-hearth furnaces)

SENIN, V.G.; DOBROKHOTOV, A.A.

Increasing the durability of the lower section of open-hearth
furnaces. Metallurg 10 no.8:19-20 Ag '64.

(MIRA 17:11)

1. Chelyabinskiy metallurgicheskiy zavod.

SERGEYEV, Sergey Dmitriyevich; DOBROKHOTOV, Andrey Fedorovich;
ZINCHENKO, V.S., red. izd-va; TSAGURIYA, G.M., tekhn. red.

[The People's Republic of Bulgaria; its economy and foreign
trade] Narodnaia Respublika Bolgariia; ekonomika i vneshniaia
torgovlia. Moskva, Vneshtorgizdat, 1962. 271 p.

(MIRA 15:12)

(Bulgaria--Economic conditions) (Bulgaria--Commerce)

AREF'YEVA, N.V.; DIYKOV, U.V.; DOBROKHOTOV, A.G.; IZRAILOV, K.S.; KIRENKOV I.I.;
NIKITENKO, L.V.; SHEMETILLO, N.V.

New measurements of thermodynamic temperature with a gas thermometer.
Trudy inst.Kom.stand.mer i izm.prib. no.71:14-29 '63. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im.
D.I. Mendeleeva.

DOBROKHOTOV, A. M.

"Problems of Combatting Brucellosis and Foot-and-Mouth Disease", at the plenum of the Veterinary Section of the All-Union Academy of Agricultural Sciences im. V. I. Lenin, in 1940 in Moscow. Vestn. s.-kh. Nauk (veterinariya), 1941, No.1.

DOBROKHTOV, A. M.

(Scientific Secretary, Veterinary Section, All-Union Academy of Agricultural sciences im. V. I. Lenin.)

XXIII Plenum of Veterinary Section of the All-Union Academy of Agricultural Sciences, im. Lenin.

Source: Veterinaryia; 22; 4-5; April-May 1945 Uncl.

DOBROKHOTOV, A. M.

Diseases of Bees. (Results of the XXVII Plenum of Veterinary Section of
the All-Union Academy of Agricultural Sciences imeni Lenin.)

SO: Veterinariya; 24; 9; September 1947; Uncl.

DOBROKHOTOV, A. M.

36808. MUTOVIN, V. I. i DOBROKHOTOV, A. M. O Prirode Virusov i Epizootologii Entsefalomielita Loshadey. (Po Materialam Soveshchaniya Pri Vet. Seksii Vsesoyu Akad. S.-kh. Nauk Im. Lenina 15 Marta 1949 g.) Veterinariya, 1949, No. 12, c. 22-25.

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

DOBROKHOTOV, A. M.

"Noncontagious Diseases of Agricultural Animals." Proceedings of the XXXII Plenum of Veterinary Section of VASKhNIL. Under the editorship of Academician K. I. SKRYABIN AND A. M. DOBROKHOTOV. Moscow, Agricultural Publishing House, 1953. 327 pages with illustrations; price 10 rubles, 80 kopeks; 5,000 copies.

SO: Veterinariya; Vol 31, No 2 Feb 1954. Uncl deg

DMBROKHOTOV, A.M.

Problems in the control of foot-and-mouth disease. Veterinariia
30 no.7:60-63 Jy '53. (MLBA 6:7)

1. Uchenyy sekretar' Vetsektzii Vsesoyuznoy Akademii sel'sko-
khozaystvennykh nauk imeni Lenina.

DOBROKHOTOV, A. M.
USSR/Medicine - Veterinary

FD 318

Card 1/1

Author : *Dobrokhotov, A. M.

Title : Problem of control of sterility among female agricultural animals

Periodical : Veterinariya, 6, 39-44, June 1954

Abstract : The September Plenum of the Central Committee of the CPSU noted sterility among female animals, unsatisfactory maintenance, lack of producers and their improper use in pairing, and shortage of livestock fodder as causing decline in number of farm animals. Considerable time was devoted in joint plenum (see below) to artificial insemination and methods of treatment of trichomonal infection. Author summarizes a number of the 40 reports presented at the joint plenum.

Institution : Veterinary Section (*Scientific Secretary) and Animal Husbandry Section of the All-Union Academy of Agricultural Sciences imeni V. I. Lenin (VASKhNIL); Scientific-Technical Council of the Ministry of Agriculture, USSR

Submitted : Results of Joint Plenum of VASKhNIL and Scientific-Technical Council, Ministry of Agriculture

MUROMTSEV, S.N. and DOBROKHOTOV, A.M.

From the Resolution of the 36th Plenum of the Vet Section of the A-U Order of Lenin Academy of Agricultural Sciences named after V.I. Lenin on Protozoan Diseases of Agricultural Animals.

Collection of works of the 36th Plenum of the Veterinary Section of the Academy, Moscow, 1955.

S.N. Muromtsev, Dep Chief of the Vet Section of the Academy

A.M. Dobrokhotov, Learned Secretary of the Vet Section of the Academy.

Trans V971, Microfilm 9006560

MUROMTSEV, S.N., akademik, redaktor; DOBROKHOTOV, A.M., redaktor; YARNYKH, A.M., redaktor; GUREVICH, M.M., tekhnicheskiy redaktor

[The struggle with barrenness and sterility in farm animals] Bor'ba s ialovost'iu i besplodiem sel'skokhoziaistvennykh zhiivotnykh. Pod red. S.N.Muromtseva i A.M.Dobrokhotova. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 271 p. (MIRA 10:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. 2. Zamestitel' predsedatelya Veterinarnoy sekti, deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Muromtsev). 3. Uchenyy sekretar' Veterinarnoy sekti (for Dobrokhotov)
(Sterility in animals)

SKRYABIN, Konstantin Ivanovich, 1878- red.; DOBROKHOTOV, A.M.

[Prophylaxis and treatment of diseases of young farm animals]
Profilaktika i lechenie zabolevanii molodniaka sel'skokhoziaistven-
nykh zhivotnykh. Moskva, Gos. izd-vo selkhoz. lit-ry, 1957.
237 p. (MIRA 11:4)
(Veterinary medicine)

DOBROKHOTOV, A.M.; VASIL'KOV, G.V.

Joint plenum of the Department of Stockbreeding of the All-Russian
Lenin Agricultural Academy and the Technical Council of the Ministry
of Agriculture of the U.S.S.R. Veterinariia 34 no.6:86-89 Je '57.
(MIRA 10:7)

(Veterinary medicine)

SKRYABIN, K.I., akademik, red.; DOBROKHOTOV, A.M., red.; BRANZBURG, A.Yu., red.; GUREVICH, M.M., tekhn.red.

[Swine diseases; transactions of the combined plenum of the Veterinary Section of the All-Union Lenin Academy of Agricultural Sciences and the Scientific and Technical Council of the Ministry of Agriculture of the U.S.S.R.] Bolezni svinei; trudy ob"edinennogo plenuma Veterinarnoi sekti VASKhNIL i Nauchno-tekhnicheskogo soveta MSKh SSSR. Pod red. K.I.Skriabina i A.M.Dobrokhotova. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 261 p. (MIRA 13:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. 2. Predsedatel' Veterinarnoy sekti Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Skryabin).
3. Uchenyy sekretar' Veterinarnoy sekti Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Dobrokhotov). (Swine--Diseases)

DOBROKHOTOV, A.M.

Veterinary Committee of the Council of Labor and Defense and its
role in epizooty control in the U.S.S.R. Veterinariia 39 no.12:
69-74 D '62. (MIRA 16:6)
(Communicable diseases in animals)

DOBROKHOTOV, A.M.; KALUGIN, V.I., dotsent; KALUGIN, V.V.

History of veterinary medicine. Veterinariia no.12:66-69 D '63.
(MIRA 17:2)

DOBROKHOTOV, A.M.; RAZHDAYEV, V.I.

History of veterinary medicine. Veterinariia 40 no.7:77-78
Jl '63. (MIRA 16:8)
(Nedachin, Aleksandr Vasil'evich, 1888-)

DOBROKHOTOV, B.A.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 396 - I

Call No.: AF602181

BOOK

Author: DOBROKHOTOV, B. A.

Full Title: MICROWAVE MEASUREMENT TECHNIQUES

Transliterated Title: Radiotekhnicheskiye izmereniya na santimetrovykh volnakh

Publishing Data

Originating Agency: None

Publishing House: "Soviet Radio" Publishing House

Date: 1948

No. pp.: 171

No. of copies: 3,000

Editorial Staff

Editor: None

Editor-in-Chief

Others: None

Tech. Ed.: None

Appraiser: None

Text Data

Coverage: This book presents systematized basic data on microwave measurements, with a concise treatment of the fundamental methods of power, wavelength, and frequency measurements. The text contains detailed descriptions, photographs and diagrams of the components of measuring apparatus. From an analysis of measuring individual parameters, the discussion proceeds to complex circuits, such as transmitting and receiving sets, and radar stations.

The treatment of this work contains very little theory, the main emphasis being placed upon practical and descriptive approach.

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AID 396 - I

· Radiotekhnicheskiye izmereniya na
santimetrovykh volnakh

TABLE OF CONTENTS

1. Preface
2. Devices for Measuring Video-Frequency Pulse Circuits (Synchronoscopes, Pulse Oscillators, Range-Scale Calibrators, Rectangular-Wave Oscillators, Pulse Voltmeters, Capacitive Voltage Dividers, Equivalent Modulator Loads)
3. Microwave Measuring and Accessory Devices (Attenuators, Directional Couplers, Impedance Transformers, Side-Outlet T Waveguides, Waveguide Adapters, Power Supply Filters, Power Dividers)
4. Measurement of Standing-Wave Ratio and Impedance (Slotted Sections, Multi-frequency Waveguide Bridges, Phase-Shift Measurements, Line-Loss Measurements)
5. Frequency Measurements, Wavemeters. (Resonance Wavemeters, Endovibrators, etc.)
6. Power Measurement. Wattmeters (Calorimetric Method, Bolometric Method, Thermistor Bridges, Thermistor Wattmeters, Bolometric Wattmeters, Photometric Method, etc.)
7. Testing of Tubes (Magnetron and Discharge Tube)
8. Testing Crystal Detectors
9. Testing Dielectrics
10. Measuring Receiver Sensitivity (Signal Generators, Noise Generators, Magnetron)

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Radiotekhnicheskiye izmereniya na
santimetrovykh volnakh

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11. Analysis of Pulsed High-Frequency Spectrum. Spectrum Analysers.
12. General Testing of Radar Stations (Echo Boxes, etc.)
13. Measurement of Equivalent Reflection Surface, Propagation Factor, and Antenna Gain
14. Measurement of Field Intensity
15. Supplementary Data (High-Frequency Line Oscillations, Basic Data on Tubes, Crystal Detectors, etc.)

Purpose: Intended for workers in the microwave field and persons wishing to obtain a basic knowledge of the field

Facilities: None

No. of Russian and Slavic References: 110 (primarily non-Soviet)

Available: A.I.D., Library of Congress

3/3

DOBROKHOTOV, B.A.; MIRSKIY, G.Ya., kand. tekhn. nauk, dots.,
retsensent; YENYUTIN, V.V., red.

[Measurements in electronics; a manual] Izmereniia v
elektronike; spravochnik. Moskva, Energiia. Vol.1.
1965. 287 p. (MIRA 18:5)

DOEROKHOTOV, B.A.

[Measurements in electronics; a handbook] Izmereniia v
elektronike; spravochnik. Moskva, Energiia. Vol.2. 1965.
239 p. (MIRA 18:5)

DOBROKHOTOV, B. N.

OTRSPL Vol. 5-No. 1 Jan. 1952

Blyakher, L. Ya. and Dobrokhotov, B. N. (Institute of Experimental Biology, U.S.S.R. Academy of Medical Sciences), Zonality and nucleation in the distribution of mitoses in the rat adenocarcinoma, 581-4

Akademiya Nauk, S.S.S.R., Doklady Vol. 78, No. 3-1951

DROZDOVA, Yu.V.; TASKAYEVA, Ye.Z.; DOBROKHOTOV, B.P.

Materials on the infestation of birds by ticks in mountains forest
landscapes of the northeastern Altai. Ornitologiya no.3:190-199
'60. (MIRA 14:6)

(Turochak District-Ticks)
(Parasites--Birds)

DOBROKHOTOV, B.P.

Ecology of squacco heron (*Ardeola ralloides* Scop.) in the Volga
Delta. Trudy Astr. zap. no. 5: 250-261 '61. (MIRA 16:8)
(Volga Delta--Heron)

DOBROKHOTOV, B.P.

Present state of the wintering of birds on the southeastern
shore of the Caspian Sea. Ornitologia no.5:362-367 '62.
(MIRA 16:2).
(Caspian Sea region--Birds in winter)

DOEROKHOTOV, B.P.

Characteristics of the use of the linear transect method for
censusing birds in forest areas. Ornitologiya no.5:379-385 '62.
(MIRA 16:2)
(Ornithological research) (Wildlife census)

VCHOB'YEV, V.N.; RAVKIN, Yu.S.; DOBROKHOTOV, B.L.

New data on the ornithofauna of the northeastern Altai.
Ornitologiya no.6:140-145 '63. (MIR 17x6)

DCBROKHOTOV, B.P.

Present conditions of birds wintering in the Kyzyl-Agach
Preserve. Ornitologiya no.6:355-359 '63.

(MIRA 17:6)

MOSOLOV, L.P.; DOBROKHOTOV, B.P.; PRONINA, Ye.A.

Survey of the abundance and epizootic state of murine rodents,
including the water rat, in the R.S.F.S.R. in 1962 and the
prognosis for 1963. Biul. MOIP. Otd. biol. 68 ~~3~~3:10-13
My-Je '63. (MIRA 17:8)

DOBROKHOTOV, B.P.; MOSOLOV, L.P.

Abundance of lesser rodents in the fall of 1963, its prognostication
and epizootic state as to tularemia for 1964. Biul. MOIP. Otd. biol.
69 no.4:30-37 J1-Ag '64.
(MIRA 17:11)

ACC NR: AT6031462

SOURCE CODE: UR/0000/65/000/000/0229/0251

AUTHOR: Olsuf'yev, N. G.; Dobrokhotoy, B. P.

ORG: Institute of Epidemiology and Microbiology im. N. F. Gumeleya, AMN SSSR,
Moscow (Institut epidemiologii i mikrobiologii AMN SSSR)

TITLE: Basic principles and goals in the study of the geography of tularemia
foci in the SSSR

SOURCE: Konferentsiya po metodam mediko-geograficheskikh issledovaniy. Moscow,
1965. Metody mediko-geograficheskikh issledovaniy (Methods of medicogeographical
research); materialy konferentsii. Moscow, 1965, 229-251.

TOPIC TAGS: tularemia, epidemiology, medical geography, disease focus, DISEASE
INCIDENCE, CARTOGRAPHY

ABSTRACT: The main classes of tularemia foci in the Soviet Union are steppe,
prairie and meadow, forest, river and swamp, tidal flat, valley,
and undetermined foci. Distribution of tularemia foci in
various parts of the Soviet Union are mapped based on data
collected from areas where outbreaks have occurred. Characteris-
tics of the various types of foci are discussed. Particular in-
terest is shown in atypical outbreaks or appearances of the disease
in areas believed free of epizootics, either naturally or by

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ACC NR: AT6031462

human intervention. Figure 1 shows the natural distribution of
tularemia foci in the European SSSR.

[WA-50; CBE No. 12]

SUB CODE: 06,08/ SUBM DATE: 17Sep65/ ORIG REF: 021/

Cord 2/2

DOBROKHOTOV, D. D.

ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; BIRYUKOV, I.K.;
 BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVY, G.A.; BULEV, M.Z.; BURAKOV,
 N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.;
 GALAKTIONOV, V.D., kand. tekhn. nauk; GENKIN, Ye.M.; GIL'DENBIAT,
 Ya.D., kand. tekhn. nauk; GINZBURG, M.M.; GLKBOV, P.S.; GODES, E.G.;
 GORBACHEV, V.N.; GRZHB, B.V.; GREKULOV, L.F., kand. s.-kh. nauk;
 GRODZENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO,
 Yu.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, M.D.; ZHOLIK,
 A.P.; ZENKEVICH, D.K.; ZIMAREV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.;
 KARANOV, I.F.; KNYAZEV, S.N.; KOLEGAYEV, N.M.; KOMAREVSKIY, V.T.;
 KOSENKO, V.P.; KORENISTOV, D.V.; KOSTROV, I.N.; KOTLYARSKIY, D.M.;
 KRIVSKIY, M.N.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LGALOV, V.G.;
 LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSEKOVICH, K.F.; MEL'NICHENKO,
 K.I.; MENDEL'EVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk;
 MUSIYVA, R.N.; NATANSON, A.V.; NIKITIN, M.V.; OVES, I.S.;
 OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PERYSHKIN,
 G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ya.D.; REMEZOV, N.P.;
 ROZANOV, M.P., kand. biol. nauk; ROCHEGOV, A.G.; RUBINCHIK, A.M.;
 RYBCHEVSKIY, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.;
 SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY,
 Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRTSOVA,
 Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.;
 TSISHNEVSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHEV, A.A.; CHUSOVITIN,
 N.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA,
 I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY,
 (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.

Ye.A., retsenzent, red.; AKHUTIN, A.N., retsenzent, red.; BALASHOV, Yu.S., retsenzent, red.; BARABANOV, V.A., retsenzent, red.; BATUNKER, P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LIKIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATIROSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzent, red.; OBRZHKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; HUMYANTSHEV, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASENKOV, N.G., retsenzent, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.R., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.N., retsenzent, red.; SEMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; RUSSO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER, (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.

Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KORABLINOV, P.N.,
tekhn. red.; GENKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn.
red.

[Volga-Don; technical account of the construction of the V.I. Lenin
Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center,
and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'-
stve Volgo-Donskogo sudokhodnogo kanala imeni V.I. Lenina, TSim-
lianskogo gidrouzla i orositel'nykh sooruzhenii, 1949-1952; v piati
tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural
descriptions] Obshchee opisanie sooruzhenii. Glav. red. S.IA. Zhuk.
Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of con-
struction. Specialized operations in hydraulic engineering] Orga-
nizatsiia stroitel'stva. Spetsial'nye gidrotekhnicheskie raboty.
(Continued on next card)

ANDON'YEV, V.I.... (continued) Card 4.

Glav. red. S.IA. Zhuk. Red. toma I.N. Kostrov. 1958. 319 p.

(MIRA 11:9)

1. Russia (1923- . U.S.S.R.) Ministerstvo elektrostantsii. Byuro
tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-kor-
respondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy
chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin,
Razin).

(Volga Don Canal--Hydraulic engineering)

DOBROKHOTOV, E.

The financial plan of the Sovkhoz: an aid for setting up a financial plan for a
sovkhoz tending toward livestock raising Moskva, Gosfinizat, 1934. 151 p. (51-50765)

HD1493.R9D6

DOBROKHOTOV, F.F., inzhener; VLADOVSKIY, M.S., inzhener.

Work of open trestles under cranes. Stroi. prom. 33 no.9:40-43
S '55. (MIRA 9:1)

(Cranes, derricks, etc.)

AUTHOR: Dobrokhotoy, F.F., Engineer. SOV/97/58/2/10/16

TITLE: The Reasons for Damage to Reinforced Concrete Beams Forming Crane Tracks. (Prichiny povrezhdeniy zhelezobetonnykh podkranovykh balok v protsesse ikh ekspluatatsii).

PERIODICAL: Beton i Zhelezobeton, 1958, Nr 2 pp 73-74, (USSR).

ABSTRACT: When the cranes are carrying heavy loads these beams should preferably be made from prestressed reinforced concrete because when ordinary reinforced concrete is used cracks might appear in the middle of the beam span. A direct load on the beam causes stresses in the top layers due to dynamic action of the crane and could cause a collapse of the beam when concrete of Mark 110 or lower is used. Nothing weaker than concrete Mark 150 should be used. In 1955 the Giprotaktorsel'khoz mash laboratory carried out tests on the above-mentioned beams. Figure 1 illustrates cracks obtained as a result of these tests. Figure 2 illustrates the dimensions of cranes and method of reinforcing including the loading method. The calculation of these beams is carried out according to norms NITU 123-55 and checks on the beams

Card 1/2

The Reasons for Damage to Reinforced Concrete Beams Forming
Crane Tracks. SOV 87/58/2/10/16

showed that they are sufficiently dimensioned. Figure 4 illustrates cross section of the beam forming a crane track and method of loading, and Figure 5 the cracks on such beams. There are five figures.

1. Beams--Fracture 2. Beams--Materials 3. Reinforced concrete--Properties

o "4V...:

Card 2/2

DOBROKHOTOV, F.P.

DOBROKHOTOV, F.P. Ural Seivernyi, Srednii, Iuzhnyi. Spravochnaia kniga. Petrograd,
Izd. B.A. Suvorina, 1977. xlvii, xxi, 744 p. DIC: Unclassified
CST-H

SO: LC, Soviet Geography, Part II, 1951, Unclassified

DOBROKHOTOV, G. inzh.

Storing and maintaining starter batteries of building machines and
trucks in winter. Na stroi. Mosk. 2 no.2:30 F '59. (MIRA 12:3)
(Storage batteries--Maintenance and repair)

DOBROKHOTOV, G. N.

Work on a hog-breeding farm, Moskva, Sel'khozgiz, 1951.

DOBROKHOTOV, G.N.

Possibilities of higher productivity in stockbreeding. Nauka i shizn' 20
no.11:6-8 N '53. (MLRA 6:11)

1. ^{Acting} Zamestitel' ^{1st} nachal'nika ^{admin} zootekhnicheskogo upravleniya Ministerstva sel'-
skogo khozyaystva SSSR. (Stock and stockbreeding)

DOBROKHOTOV, G. N.

Dobrokhotoy, G. N.

"The Organization and Technology of Fattening Pigs on Progressive Kolkhozes." All-Union Sci Res Inst of Animal Husbandry. Moscow, 1955
(Dissertation for the degree of Candidate in Technical Sciences)

SO: Knizhnaya letopis' No. 27, 2 July 1955

~~DOBROKHOTOV, G.N.~~redaktor; SYCHIK, Ye.,redaktor; VESKOVA, Ye.I.
tekhnicheskiiy redaktor

[Bibliographical guide to abstracts on stockbreeding for 1952]
Referativno-bibliograficheskii spravochnik po zhivotnovodstvu
za 1952 god. Moskva, Gos. izd-vo sel'khoz. lit-ry,
1956. 389 p. (MLRA 10:4)
(Bibliography--Stock and stockbreeding)

DOBROKHOTOV, G.N., kandidat sel'skokhozyaystvennykh nauk (Moskva)

~~Resources for increasing stockbreeding productivity.~~ Est.v shkole
no.3:13-18 My-Je '56. (MLRA 9:8)
(Stock and stockbreeding)

DOBROKHOTOV, G.N., kandidat sel'skokhozyaystvennykh nauk; LUTSENKO, M.N.,
redaktor; AZAROVA, O.A., redaktor; BYRDINA, A.S., redaktor;
BALLOD, A.I., tekhnicheskiiy redaktor

[Manual for zootechnicians] Spravochnik zootekhnika. Moskva, Gos.
izd-vo sel'khoz.lit-ry, 1957. 935 p. (HLRA 10:10)
(Stock and stockbreeding)

DOBROKHOTOV, G.N., red.; CHERTOV, P.N., red.

[Raising and fattening swine] Vyrashchivanie i otkorm svinei.
Izd. 2-e, perer. i dop. Moskva, Gos. izd-vo selkhoz. lit-ry,
1957. 111 p. (MIRA 11:4)
(Swine--Feeding and feeding stuffs)

NOVRISYANTS, A.P., kand.sel'skokhozyaystvennykh nauk; DOBROKHOTOV, G.N.,
kand.sel'skokhozyaystvennykh nauk

In memory of a distinguished scholar and zootechnician. Zhivot-
novodstvo 20 no.11:92-94 N '58. (MIRA 11:11)
(D'iakov, Mikhail Iudovich, 1878-1952)

RUSAKOV, G.K., kand.sel'khoz. nauk; VARENITSA, Ye.T., doktor biolog. nauk, red.;
PISAREV, V.Ye., doktor sel'khoz. nauk, red.; BENEVOL'SKIY, S.A.,
kand. sel'khoz. nauk, red.; RUDAKOV, G.F., laureat Stalinskoy pre-
mi, inzh., red.; DOBROKHOTOV, G.N., kand. sel'khoz. nauk, red.; RU-
MYANTSEV, A.T., red.; ROSSOSHANSKAYA, V.A., red.; PEVZNER, V.I.,
tekhn. red.

[Handbook for agronomists of the non-Chernozem Zone] Spravochnik agro-
noma nechernozemnoi polosy. Moskva, Gos. izd-vo sel'khoz. lit-ry.
Vol.1. 1960. 687 p. (MIRA 14:7)

(Agriculture)

DOBROKHOTOV, G.N.; MAYOROVA, Ye.V.

Kinetics of autoclave leaching of nickel matte. Izv. vys. ucheb.
zav.; tsvet. met. 8 no.1:64-72 '65. (MIRA 18:6)

1. Nauchno-issledovatel'skiy i proyektnyy institut "Gipronikel".

CA DOBROKHOTAY, G.N.

2

Yield of nickel sulfate in its crystallization. G. N. Dobrokhotoy (Leningrad Mining Inst.), *Zhur. Priklad. Khim.* (J. Applied Chem.) 23, 1118-20 (1950).—The wt. G_c of crystals of $\text{NiSO}_4 \cdot n\text{H}_2\text{O}$ obtained by cooling a wt. G_0 of soln. of initial concn. c_1 and final concn. c_2 is given by the formula $G_c = G_0(c_1 - c_2)/(100 - c_2) - (100 \cdot n \text{ H}_2\text{O}/\text{NiSO}_4 \cdot n \text{ H}_2\text{O})$, where $n = 100 \text{ H}_2\text{O}/\text{NiSO}_4 \cdot n \text{ H}_2\text{O}$ is the % content of H_2O in the crystg. sulfate. Data are tabulated of n and % Ni for values of n from 6.0 to 7.0, and of n under conditions of rapid and of slow crystn. In rapid crystn. from strong solns., $n = 6.2$, and, with $n = 41.0$, the formula becomes $G_c = G_0(c_1 - c_2)/(88.1 - c_2)$. In slow crystn., n is more nearly = 6.6, and the figure in the denominator is 86.9 instead of 88.1. Data are also given of densities of solns. of NiSO_4 , 17-46%, at temps. from 20 to 100°.

N. Thon

Dobrokhotov, G. N.

USSR

The magnitude of pH in the precipitation process of metal hydroxides from sulfuric acid solutions. G. N. Dobrokhotov (Leningrad Mining Inst.). *Russ. Priklad. Khim.* 27, 1034-40 (1954).—The compn. of the solid phase in equil. with solns. of MSO_4 ($M = Cu, Ni, Zn, \text{ and } Co$) in the progressive stages on increasing pH was detd. at 75° by potentiometric titrations with NaOH and from the slopes of the pH vs. log α curve (α = mean activity of the salts in soln.). All 4 sulfates form $MSO_4 \cdot 3M(OH)_2$. The concn. ranges of stability of these complexes obtained from the pH vs. log α curves are, in g. M/l.: 0.01–100 Cu, 0.2–100 Ni, 0.1–9 Zn, 0.3–9 Co. Below these concns. only the hydroxides are stable; for Zn and Co there is an indicated deviation from linearity of the pH-log α curve above 9 g. M/l. The complexes of Cu and Co are stable and hydrolyze slowly at high pH, Co to give $Co(OH)_3$ and Cu to CuO ; $Cu(OH)_2$ is formed when $CuSO_4$ is added rapidly to NaOH. The log of the activity products of the ions at equil. at 75° for the $M(OH)_2$ and for the complexes of Cu, Zn, Ni, and Co are: 19.9, 17.0, 16.2, 15.5 and 69.5, 57.2, 53.4, 51.7, resp. Conclusions obtained from pH-log α curves calcd. from data at 25° are valid at 75°.

I. Bencowitz

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 54 (USSR) SOV/137-58-12-24312

AUTHOR: Dobrokhotoy, G. N.

TITLE: High-temperature and -pressure Hydrometallurgical Treatment of Sulfide Nickel Materials and Concentrates (Pererabotka sul'fidnykh nikel'nykh materialov i kontsentratsiy gidrometallurgicheskimi metodami pri vysokikh davleniyakh i temperaturakh)

PERIODICAL: Materialy Soveshchaniya po vopr. intensiv. i usoversh. dobychi i tekhnol. pererabotki medno-nikel'nykh i nikel'nykh rud. 1956 g., Moscow, Profizdat, 1957, pp 260-271

ABSTRACT: The results of investigations of methods for the processing of Ni, Ni-Co, and Ni-Co-Cu materials and concentrates by an autoclave process. Ammonia leaching (L) does not yield good results because of the particular nature of the mineralogical composition of USSR ores. 95-99% of the Co and Ni in mattes can be brought into solution in 3-4 hours in H₂SO₄, at 10-15 atm O₂ pressure, and 115°C. Acid L recovers ~90% Ni and ~85% Co from Severonikel' Kombinat concentrates. Most of the Cu goes into a Cu-3 alloy, while up to 30% of the Cu goes into solution. The bulk of the Fe goes into waste-tailing

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High-temperature and -pressure Hydrometallurgical Treatment of Sulfide (cont.) SOV/137-58-12-24312
cakes. The S is divided about equally between the solution and the Cu-S alloy. A
study is made of the kinetics of the reduction of Ni-Co-Cu and Ni-Co-ammonia
solutions by H_2 and Co.

Ye. Z.

Card 2/2

ДОБРОХОТОВ, Г. И.

AUTHORS: Dobrokhotoy, G. N. and Onuchkina, N. I. 136-3-7/25

TITLE: Acid Leaching of Nickel Concentrates and Mattes by the Autoclave Method. (Kislotnoye vyshchelachivaniye nikel'evykh kontsentratov i shteynov avtoklavnyy sposobom).

PERIODICAL: Tsvetnyye Metally, 1957, No.3, pp.35-40 (USSR)

ABSTRACT: Leaching in an atmosphere of oxygen is a most important operation in the treatment of sulphide raw materials by hydrometallurgical methods. Various schemes have been proposed and these are briefly considered in this article, after which experiments on a process similar to one proposed by Downes and Bruce (Ref.5) are described. Here the leaching is carried out with a low pH value (1-2) of the liquid and the aim of the experiments was to see to what extent the method is applicable to some nickel-manufacture products. Two concentrates and a matte were treated under various conditions and graphs showing the course of the extraction of nickel at different pH values, temperatures and pressures as well as the behaviour of cobalt, copper, iron and sulphur at various pressures are presented. Some results are also tabulated, as are the compositions of the materials. The products of the leaching were found to be an acid nickel-cobalt sulphate solution, a

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136-3-7/25

Acid Leaching of Nickel Concentrates and Mattes by the Autoclave Method.

copper-sulphur alloy and tailings consisting of iron hydroxide and gangue elements. The acid required was formed by oxidation of the sulphides themselves and hydrolysis of ferric sulphate. The optimal temperature was 115 to 118 C, the optimal pressures for concentrates and matte being about 20 and 10-15 atm gauge, respectively. On the average the process was completed in 3 to 6 hours, the time depending on the lump size of the materials and the intensity of mixing. An editorial note states that the application of the methods described for treating some Soviet copper-nickel sulphide concentrates would lead to losses of precious metals; but the method is recommended for mattes.

2/2 There are 5 figures, 3 tables and 6 references, 5 of which are Slavic.

ASSOCIATION: Gipronikel'.

AVAILABLE: Library of Congress

TSNYDLER, Aleksandr Al'bertovich, prof. doktor; SMIRNOV, V.I., prof., doktor;
DIOMIDOVSKIY, D.A., prof.-doktor; DOBROKHOTOV, G.N., kand. tekhn.
nauk; BULAKH, S.A., kand. tekhn. nauk; GURIMA, N.V., red.;
SMOLDYREVA, L.G., red, izd-va; VAYNSHTAYN, Ye.B., tekhn. red.

[Metallurgy of copper and nickel] Metallurgiya medi i n kelia.
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi
metallurgii, 1958. 391 p. (MIRA 11:8)

1. Deystvitel'nyy chlen Akademii nauk KazSSR (for Smirnov).
2. Leningradskiy gornyy institut; kafedra metallurgii tyazhelykh
i blagorodnykh metallov (for Diomidovskiy, DobrokhotoV, Bulakh).
(Copper--Metallurgy) (Nickel--Metallurgy)

Dobrokhotoy, G.M.

SOV/136-59-7-17/20

AUTHOR: B.N.S.

TITLE: Conference on Autoclave Processes

PERIODICAL: Tsvetnyye metally, 1959, Nr 7, pp 84-87 (USSR)

ABSTRACT: On 23-26 February 1959 a conference was held in Moscow for summing-up and coordinating work on autoclave processes in the metallurgy of heavy, non-ferrous, rare and noble metals. The conference was convened jointly by the Otdel Tsvetnoy metallurgii (Non-Ferrous Metallurgy Department) of the Gosplan SSSR (USSR), the GNTK of the USSR, the NTO for Non-Ferrous Metallurgy and the Gintsvetmet. The conference was opened by N.S. Seliverstov, GNTK of the USSR, who noted that applications of research on autoclave processes was being hampered in the USSR by lack of coordination. The conference heard reports as follows: D.M. Yukhtanov, Gintsvetmet, on progress throughout the world on the use of hydrometallurgical, particularly autoclave, methods for non-ferrous and rare metal production; G. N. Dobrokhotoy, Gipronikel', on nickel leaching practice at some Soviet works; N. I. Onuchkina and G. N. Dobrokhotoy

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Conference on Autoclave Processes

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Card 2/5

on the thermodynamics and kinetics of the selective reduction by hydrogen and carbon monoxide under pressure of nickel and cobalt from solution; I. Yu. Leshch and K. M. Shelepova, Giprotnikel', on design decisions on the application of the flowsheets dealt with by G. N. Dobrokhotoy at the Yuzhuralnikel' and Severonikel Combines and the Ufaleskiy (Ufa) Nickel Works; I. N. Maslenitskiy, Leningradskiy gornyy institut (Leningrad Mining Institute) on the advantages of a combined flotation-autoclave method for nickel-electrolysis of slimes containing platinum-group metals; V. B. Zhilkin, Severonikel' combine, and S. I. Sobol', Gintsvetmet, on the essentials of the neutral method of oxidizing leaching of nickel concentrate from converter-matte flotation; S. I. Sobol' on preliminary investigations on the development of a sulphurous-sulphuric method for leaching nickel and cobalt from oxidized nickel ores; N. N. Maslenitskiy, Mekhanobr, on the main results of investigations of the autoclave-soda process for treating tungsten-ore beneficiation products;

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Conference on Autoclave Processes

V. I. Poprukaylo, Mekhanobr, and D. A. Malakhov, Skopin-skaya (Skopinsk) TsOF, separately, on problems in the application of an autoclave-soda flowsheet to scheelite and wolframite raw material; G. A. Meyerson, K. Ya. Shapiro, N. N. Khavskiy, R. A. Pavlyuk and A. P. Nadol'skiy, Krasnoyarskiy institut tsvetnykh metallov (Krasnoyarsk Non-Ferrous Metals Institute) on the treatment of tungsten concentrates in hermetical, heated ball-mills with acids or caustic alkalies; V. I. Spiridonova, S. I. Sobol', Ye. I. Gulyayeva, Z. L. Berlin, I. M. Nelen' and B. I. Rudenko, Gintsvetmet, on the treatment of prepared and unprepared sulphide molybdenum raw material by oxidizing autoclave alkaline leaching; I. M. Nelen' and S. I. Sobol' on the kinetics of oxidizing autoclave leaching; A. N. Zelikman and Z. M. Lyapina, Krasnoyarsk Non-Ferrous Metals Institute, on the results of a study of conditions for the selective separation of lower oxides of tungsten and molybdenum from their salt solutions by hydrogen under pressure; M. V. Darbinyan, Gorno-metallurgicheskiy institut (Mining-Metallurgical Institute)

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SOV/136-59-7-17/20

Conference on Autoclave Processes

of the Sovnarkhoz (economic council) of the Armyanskaya SSR (Armenian SSR), on his investigations of ammoniacal autoclave leaching under oxygen pressure of molybdenum concentrates; S. I. Sobol' on technical-economic factors of ammoniacal leaching; A. I. Sinel'nikova and I. N. Plaksin, Krasnoyarsk Non-Ferrous Metals Institute, on an oxidizing autoclave process for gold-containing raw material; N. G. Tyurin, Ural'skiy politekhnicheskiy institut (Ural Polytechnic Institute) on the behaviour of noble metals in oxidizing autoclave leaching in thiosulphate solutions; A. L. Tseft and D. A. Taraskin and A. Yu. Dadabayev, Institut metallurgii i obogashcheniya AN Kaz SSR (Metallurgy and Beneficiation Institute of the AS Kaz SSR), respectively, on the physicochemical fundamentals and on works'trials of autoclave salt leaching of polymetallic materials; I. Yu. Leshch, Gipronikel', on the unsuitability of autoclave leaching for lime-containing materials; V. A. Bernshteyn, VAMI, on industrial experience of a continuous autoclave leaching process for bauxites; V. G. Tronev, IONKh AN SSSR (IONKh AS USSR), on compounds of some rare elements in

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Conference on Autoclave Processes

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various valency states under oxygen and hydrogen pressure in the presence of anhydrous ammonia; Z. L. Berlin, Gintsvetmet, on autoclave design and operation; P. G. Yakovlev, Gipronikel', and N. Ye. Vishnevskiy, VNII neftekhim, on model studies on autoclaves and the development of mixers; M. A. Polyanov, K. B. Giredmet, on the design of an experimental high-pressure pulp pump. G. L. Shvarts, NIIKhIMMASH, on the selection of steel for acid leaching of cobalt matte and matte-flotation concentrate; Yu. I. Archakov, VNIIneftekhim, on corrosion of types IKh18N9T, 12KhGN, 10KhSND and 10GND steels in soda and alkaline solutions in the presence of metal salts and oxygen at 5 - 15 kg/mm²; V. I. Deryabina and N. N. Kalgatin, VNIIneftekhim, separately, on mechanical properties of hydrogen-affected steels. The conference made recommendations aimed at the extension and improvement of autoclave practice.

Card 5/5

5(2)

SOV/80-32-4-9/47

AUTHOR: Dobrokhotov, G.N.

TITLE: Kinetics of the Formation of Nickel Carbonyl From Ammonia-Sulfate Solutions (Kinetika obrazovaniya karbonila nikelya iz ammiachno-sul'fatnykh rastvorov)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 4 pp 757-763 (USSR)

ABSTRACT: The kinetics of nickel carbonyl formation from ammonia-sulfate solutions is investigated. The ammonia compounds of many metals have a tendency to hydrolysis which may be prevented by the introduction of 1.0-1.5 mole/liter of ammonium sulfate. The reduction of nickel is carried out by carbon monoxide. The reduction may be controlled by the reaction rate or by the diffusion rate of the carbon monoxide in the solution. At intensive mixing of the liquid with gas ($Re > 20,000$) the system has the properties of kinetic homogeneity. At moderate mixing the process has a mixed diffusion-kinetic or diffusion character. Equations for both cases are given. The reduction rate increases with the OH^- content. The change of the reduction rate is proportional to the doubled pH-value. The active

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Kinetics of the Formation of Nickel Carbonyl From Ammonia-Sulfate Solutions

transition complex has therefore two OH^- groups per each nickel atom. The mechanism of the reaction is described by the following stages: dissolution of carbon monoxide in the aqueous solution; formation of nickel carbonyl; formation of the active transition complex $[\text{Ni}(\text{NH}_3)_n]^{4+} \cdot (\text{OH}^-)_2$; oxidation of the carbon monoxide; and decomposition of ammonium carbonate. Onuchkina, N.I., Vishnevskiy and Vasil'yev are mentioned in the text.

There are 7 graphs, 1 table and 14 references, 9 of which are Soviet, 2 English, 2 German and 1 Japanese.

ASSOCIATION: Proektnyy i nauchno-issledovatel'skiy institut nikel'-kobaltovoy i olovyannoy promyshlennosti (Engineering and Scientific Research Institute of the Nickel-Cobalt and Tin Industry)

SUBMITTED: October 10, 1957

Card 2/2

VISHNEVSKIY, Nikolay Yevgen'yevich, kand.khim.nauk; GLUKHANOV, Nikolay
Parfenovich, kand.tekhn.nauk; KOVALEV, Ivan Sidorovich, kand.
tekhn.nauk; DOBROKHOTOV, G.N., kand.tekhn.nauk, retsenzent;
STOLYAROV, I.M., inzh., retsenzent; BORODULINA, I.A., red.isd-va

[High-pressure equipment with an airtight drive] Apparatura
vysokogo davleniya s germeticheskim privodom. Izd.2., ispr. 1
dop. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry,
1960. 246 p. (MIRA 13:7)

(Electric driving) (High-pressure research)

DOBROKGOTOV, G.N.; ONUCHKINA, N.I.

Kinetics of nickel reduction by hydrogen from ammonia-sulfate solutions.
Izv. vys. ucheb. zav.; teoret. met. 5 no.5:72-78 '62. (MIRA 15:10)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy nikel'voy
promyshlennosti. (Nickel--Metallurgy) (Hydrometallurgy)

S/136/62/000/008/001/004
E021/E435

AUTHORS: Dobrokhotoy, G.N., Onuchkina, N.I., Ratner, Z.L.
TITLE: Autoclave reduction of nickel and cobalt hydroxides
by hydrogen
PERIODICAL: Tsvetnyye metally, no.8, 1962, 44-47

TEXT: A finer and purer metallic powder can be produced by autoclave reduction of hydroxides than by reduction of ammoniacal-sulphate solutions. Diffusion of hydrogen into the metal during the process also results in an increase in lattice parameter which produces powder which has better catalytic properties. Experiments were carried out in autoclaves with 1 to 3 litre capacity. Hydrated nickel oxide was prepared from hot solutions of nickel sulphate and sodium hydroxide. The precipitate was washed on a vacuum-filter and the charge in the autoclave had a solid to liquid ratio of 1:10. Hydrated cobalt oxide was prepared from solutions of sodium hypochlorite and boiling cobalt sulphate. The charge for the autoclave had a solid to liquid ratio of 1:40. Hydrogen was fed in as soon as the required temperature was reached. The
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Autoclave reduction of nickel ...

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degree of reduction was found by removing samples periodically from the autoclave. Before each experiment the internal surfaces of the autoclave were pickled in hot 5% nitric acid. Relatively coarse, low activity carbonyl powders (nickel 41 μ , cobalt 71 μ) were used for nucleation in the reduction process. Curves of the degree of reduction against time show in each case a marked induction period; this is attributed to unstable oxide compounds on the nucleating powder and the slow rate of crystallization of the first metallic grains. The optimum conditions of reduction are: 200 to 250°C; a partial pressure of hydrogen of 20 to 30 atm; 1 to 1.5 hours duration. The obtained powder was finely dispersed, had high catalytic properties and low cementation activity. There are 2 figures and 3 tables.

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DOBROKHOTOV, G.N.; MAYOROVA, Ye.V.

Kinetics of autoclave leaching of cobalt matte and considerations
on the choice of a type of autoclave. TSvet. met. 36 no.8:31-37
Ag '63. (MIRA 16:9)
(Cobalt—Metallurgy) (Leaching) (Autoclaves)

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Kinetics of the autoclave lixiviation of white copper matte.
Zhur. prikl. khim. 36 no.10:2148-2154 0 '63.

(MIRA 17:1)

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kobal'tovoy i olovyannoy promyshlennosti.

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Kinetics of autoclave leaching of sphalerite. Izv. vys. ucheb.
zav., tsvet. met. 7 no.5:51-57 '64 (MIRA 18:1)

1. Nauchno-issledovatel'skiy i proyektnyy institut "Gipronikel".
Rekomendovana kafedroy metallurgii tyazhelykh tsvetnykh i blago-
rodnykh metallov Leningradskogo gornogo institut..

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"The Problems of Increasing the Efficiency of Draft-Horse Breeds."
Cand Agr Sci, Moscow Agricultural Acad imeni K. A. Timiryazev, Moscow,
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Life span and preservation of capacity for work following various
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1. Descriptive article.

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Effect of hypertonic solutions on blood coagulation. Terap.
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1. Iz kafedry vnutrennikh bolezney (zav.-prof. I.A.Chernogorov)
Moskovskogo meditsinskogo stomatologicheskogo instituta.
(BLOOD COAGULATION, effect of drugs on,
hypertonic solutions(Rus)
(HYPERTONIC SOLUTIONS, effects,
on blood coagulation (Rus)

DOBROKHOTOV, G. S., Candidate Med Sci (diss) -- "The effect of hypertonic solutions on the coagulability of the blood". Moscow, 1959. 12 pp (Min Health RSFSR, Moscow Med Stomatological Inst), 200 copies (KL, No 23, 1959, 171)

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(MIRA 16:12)

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Moskovskogo meditsinskogo stomatologicheskogo instituta.

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POGORZHEL'SKIY, L.A., inzhener; POSTNIKOV, A.A., inzhener;
SHABYY, Yu.V., kandidat tekhnicheskikh nauk; OL', A.A., professor,
doktor arkhitektury; URAV'YEV, B.V., kandidat arkhitektury;
VASIL'YEV, B.D., doktor tekhnicheskikh nauk professor, redaktor;
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